

MACH LIST FOR-2311 MOD- SER-7324544 PLT-73 REQSTR DCC 18FEB70
CTRY-866 CUST-0000000- SER BR-000 SYS#- -000-FLO⁶⁶ TYP-2025
SHIPPED- SHP SEQ-A0101 FCT SEQ-B0032 W/D SUF- 3 MACH STA-FACTRY
SEQ# EC# STATUS FLD B/M FCSI # TIME ECA# DATE
A0101 910385 PRES LVL
B0032 FCT 411407 FACT LVL
Y0005 OPT 411409 INQUIRY#
FEAT BM QTY FEATURE NAME STATUS DATE ACC SHP-LVL-FCT
SEQ# EC# STATUS FLD B/M FCSI # TIME ECA# DATE
2133900 001 IDENTIFICATION BUTTON 0 INT FEB70 D0002 E0000
D0002 411123 PRES LVL
2180861 001 LANGUAGE GROUP ENGLISH INT FEB70 D0002 E0001
D0002 408077 PRES LVL
E0001 FCT 408081T FACT LVL
2180900 001 SHIPPING GROUP INT FEB70 D0004 E0000
D0004 411239 PRES LVL
2181034 001 COLOR GROUP BLUE INT FEB70 9043 D0001 E0000
D0001 411114 PRES LVL
2244008 001 COMPLETION 50 CYCLE MD 1 INT FEB70 D0002 E0000
D0002 411321 PRES LVL

PAGE NO. SH	TITLE	PART NO	EC NO.	FEATURE B/M OR B/MS
** LOGIC TYPE SLT BOARDS 6				
01B-A1	CUSTOMIZED BOARD ASSEMBLY	5811144	411227A	

FD010	INTERFACE	2180631	411387
FD011	2311 SIMPLIFIED LOGIC	2244138	411359
FD012	2311 SIMPLIFIED LOGIC	2244139	411359
FD013	2311 SIMPLIFIED LOGIC	2244140	411359
FD014	2311 SIMPLIFIED LOGIC	2244141	411359
FD015	1 SLD CHART	2180831	411359
FD015	2 SOCKET LISTING	2180831	411359
FD016	DATA FLOW + CONTROL	2180832	411143
FD020	LINE RECEIVERS	2180633	411249
FD021	LINE RECEIVERS	2180634	411334
FD025	LINE DRIVERS	2180635	411334
FD026	LINE DRIVERS	2180636	411334
FD030	CYLINDER ADDR + DIFF RESET	2180637	411249
FD040	DIFFERENCE COUNTER WITH DECODES	2180638	411249
FD050	SOLENOID DRIVERS	2180639	411334
FD053	ACCESS TIMING	2180640	411359
FD056	TRANSDUCER - SPEED DETECTOR	2180641	411334
FD057	I/O SECTOR GENERATOR	2181317	411334
FD060	HEAD SELECT REGISTER	2180642	411249
FD065	HEAD SELECT 0-9 + SAFETY	2180643	411334
FD070	WRITE AMPLIFIER	2180644	411341
FD075	WRITE DRIVER + MATRIX	2180645	411249
FD080	READ PRE-AMP + MATRIX	2180646	411249
FD085	READ AMPLIFIER	2180647	411359
FD090	SAFETY CIRCUITS	2180648	411359
FD097	REVENUE METER	2180655	411334
FD098	R + S METER OPTIONAL FEATURE	2180833	411334
FD099	CE INDICATOR DRIVER	2180825	411249
FD100	RELAY CIRCUITS	2180649	411359
FD105	SOLENOIDS	2180650	411249
FD110	AC POWER DISTRIBUTION	2180651	411359
FD111	1 AC POWER DISTRIBUTION	2180834	411359
FD111	2 AC POWER DISTRIBUTION	2180834	411359
FD115	DC+ SIGNAL DISTRIBUTION	2180652	411249
FD117	COMPONENT LOCATIONS	2180745	411359
FD120	SERVICE VOLTS BOARD A1	2180654	411359

2		3		4		5		6		7			
FCU TO FILE							FILE TO FCU						
LINE NAME	2841 PAGE	SYS/360-20 MOD 01-04 50HZ 60HZ	SYS/360-20 MOD-05 50HZ 60HZ	SYS/360-25 PAGE	2311 PAGE	2311 CONNECTORS	LINE NAME	2841 PAGE	SYS/360-20 MOD 01-04 50HZ 60HZ	SYS/360-20 MOD-05 50HZ 60HZ	SYS/360-25 PAGE	2311 PAGE	2311 CONNECTORS
CLOCK OUT	FA011	WF093	WF093	WF094	FD020	SIG-24	CYLINDER ADDR REG 1	FA011		WF094	WF093	FD026	SIG-40
CONTROLLED END (FROM FCU)	FA011	YA271 YA571	YB045 YB145	YA072	FD115	SIG-76	CYLINDER ADDR REG 2	FA011		WF094	WF093	FD026	SIG-42
CONTROL	FA011	WF093	WF093	WF094	FD021	SIG-21	CYLINDER ADDR REG 4	FA011		WF094	WF093	FD026	SIG-43
CPU HALT	FA011	WF093	WF093	WF094	FD020	SIG-22	CYLINDER ADDR REG 8	FA011		WF094	WF093	FD026	SIG-45
DC GROUND	FA011	YA422 YA722	YB067 YB0167	YA072	FD115	DC-3,4,10 & 11	CYLINDER ADDR REG 16	FA011		WF094	WF093	FD026	SIG-46
							CYLINDER ADDR REG 32	FA011		WF094	WF093	FD026	SIG-48
FILE BUS 0	FA011	WF093	WF093	WF094	FD020	SIG-1	CYLINDER ADDR REG 64	FA011		WF094	WF093	FD026	SIG-49
FILE BUS 1	FA011	WF093	WF093	WF094	FD020	SIG-3	CYLINDER ADDR REG 128	FA011		WF094	WF093	FD026	SIG-51
FILE BUS 2	FA011	WF093	WF093	WF094	FD020	SIG-4							
FILE BUS 3	FA011	WF093	WF093	WF094	FD020	SIG-7	FILE UNSAFE	FA011	WF094	WF094	WF093	FD025	SIG-57
FILE BUS 4	FA011	WF093	WF093	WF094	FD020	SIG-8	FRAME GROUND	FA011	YA412, YA712	YB041 YB141	YA072	FD110	AC-6
FILE BUS 5	FA011	WF093	WF093	WF094	FD021	SIG-11	GATED ATTENTION	FA011	WF094	WF094	YA072	FD025	DC-21
FILE BUS 6	FA011	WF093	WF093	WF094	FD021	SIG-12	HEADS EXTENDED	FA011	YA271 YA571	YB045 YB145	YA072	FD115	SIG-65
FILE BUS 7	FA011	WF093	WF093	WF094	FD021	SIG-14	NEUTRAL (50 CYCLE ONLY)	FA011	YA412 YA712	YB045 YB145	YA072	FD110	AC-D
MOD SELECT	FA011	WF093	WF093	YA072	FD021	DC-23	READ DATA COAX	FA011	WF094	WF094	YA072	FD085	DC-12
SET CYLINDER	FA011	WF093	WF093	WF094	FD021	SIG-17							
SET DIFFERENCE	FA011	WF093	WF093	WF094	FD021	SIG-15	SEL END OF CYLINDER	FA011	WF094	WF094	WF093	FD025	SIG-60
SET HEAD & DIRECTION	FA011	WF093	WF093	WF094	FD021	SIG-18	SEL SEEK INCOMPLETE	FA011	WF094	WF094	WF093	FD025	SIG-58
WRITE DATA COAX	FA011	WF093	WF093	YA072	FD070	DC-5	SEL WRITE CURRENT SENSE	FA011	WF094	WF094	WF093	FD025	SIG-64
							SELECTED FILE READY	FA011	WF094	WF094	WF093	FD025	SIG-52
+3 VDC	FA011	YA422 YA722	YB065 YB165	YA072	FD115	DC-13 & 14	SELECTED INDEX	FA011	WF094	WF094	WF093	FD025	SIG-55
-3 VDC	FA011	YA422 YA722	YB065 YB165	YA072	FD115	DC-19 & 20	SELECTED MODULE	FA011	YA422 YA722	WF094	YA072	FD025	DC-22
+6 VDC	FA011	YA422 YA722	YB065 YB165	YA072	FD115	DC-1 & 2	SELECTED ON LINE	FA011	WF094	WF094	WF093	FD025	SIG-54
+36V SEQUENCE PICK (IN)	FA011	WF094	WF094	WF093	FD115	SIG-77 (IN CONN)	SELECTED SECTOR	FA011	WF094	WF094	WF093	FD057	SIG-52
-36 VDC	FA011	WF095	WF094	YA072	FD115	DC-15							
208 VAC -3 PHASE	FA011	YA412 YA712	YB041 YB141	YA072	FD110	AC-A, B & C	+3 VDC TO TERMINATOR PLUG					FD115	SIG-79 (OUT CONN)
110/208 VAC CONVENIENCE	FA011	YA412 YA712	YB041 YB141	YA072	FD110	AC-E & F	+36V SEQUENCE PICK (OUT)	FA011	WF094	WF094	WF093	FD115	SIG-77 (OUT CONN)
							+36V TO FCU READY POINT	FA011	WF094	WF094	WF093	FD115	SIG-78 (IN CONN)
SHIELD GROUND		WF093	FRAME GROUND	YA072		SIG-80,82	100 CYLINDER FILE		WF094	WF094		FD115	DC-16
SHIELD GROUND	FA011	YA422 YA722	FRAME GROUND	YA072		DC-25	CYLINDER 000		WF094	WF094		FD057	DC-17

- NOTES:
1. CABLE ROUTING THROUGH FILE IS SHOWN ON FD115
 2. ALL SIGNAL LINES ARE TWISTED PAIRS THE GROUND WIRE IS TERMINATED ON THE GROUND BUS ON THE CABLE CARD IN THE ELECTRONIC GATE
 3. SYSTEM/360-20 CONNECTS TO 2311 MOD 11 AND 12, ALL OTHERS CONNECT TO MOD 1.

RED

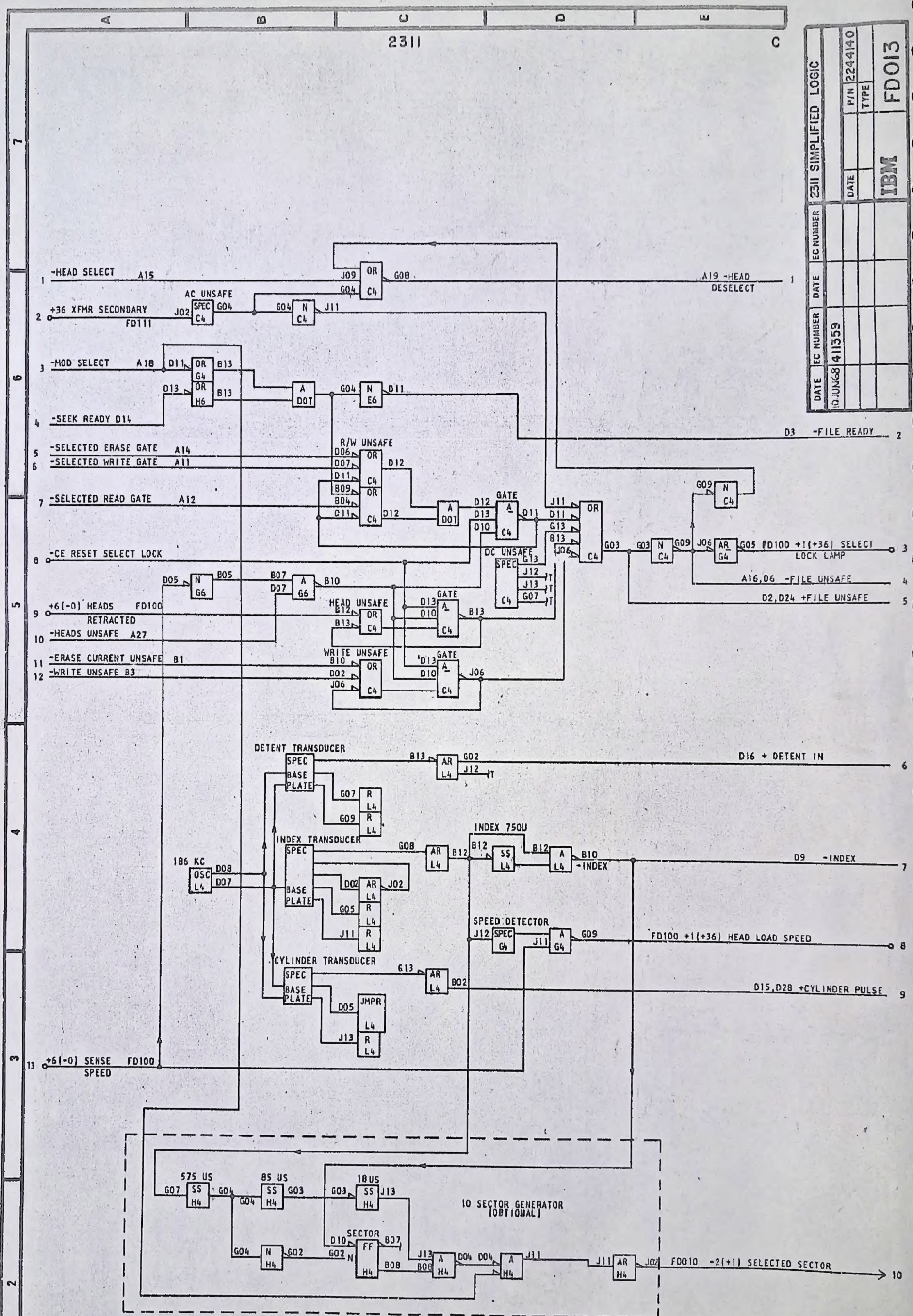
DATE	EC NUMBER	DATE	EC NUMBER	INTERFACE		
AUG 64	411042	JUL 66	411227			
JAN 65	411105	APR 67	411249	DATE	JUL 66	P/N 2180631
APR 65	411127	06JUN68	411359		TYPE	
JUN 65	411141	05SEP68	411387	IBM		FD010
SEP 65	411152					

2



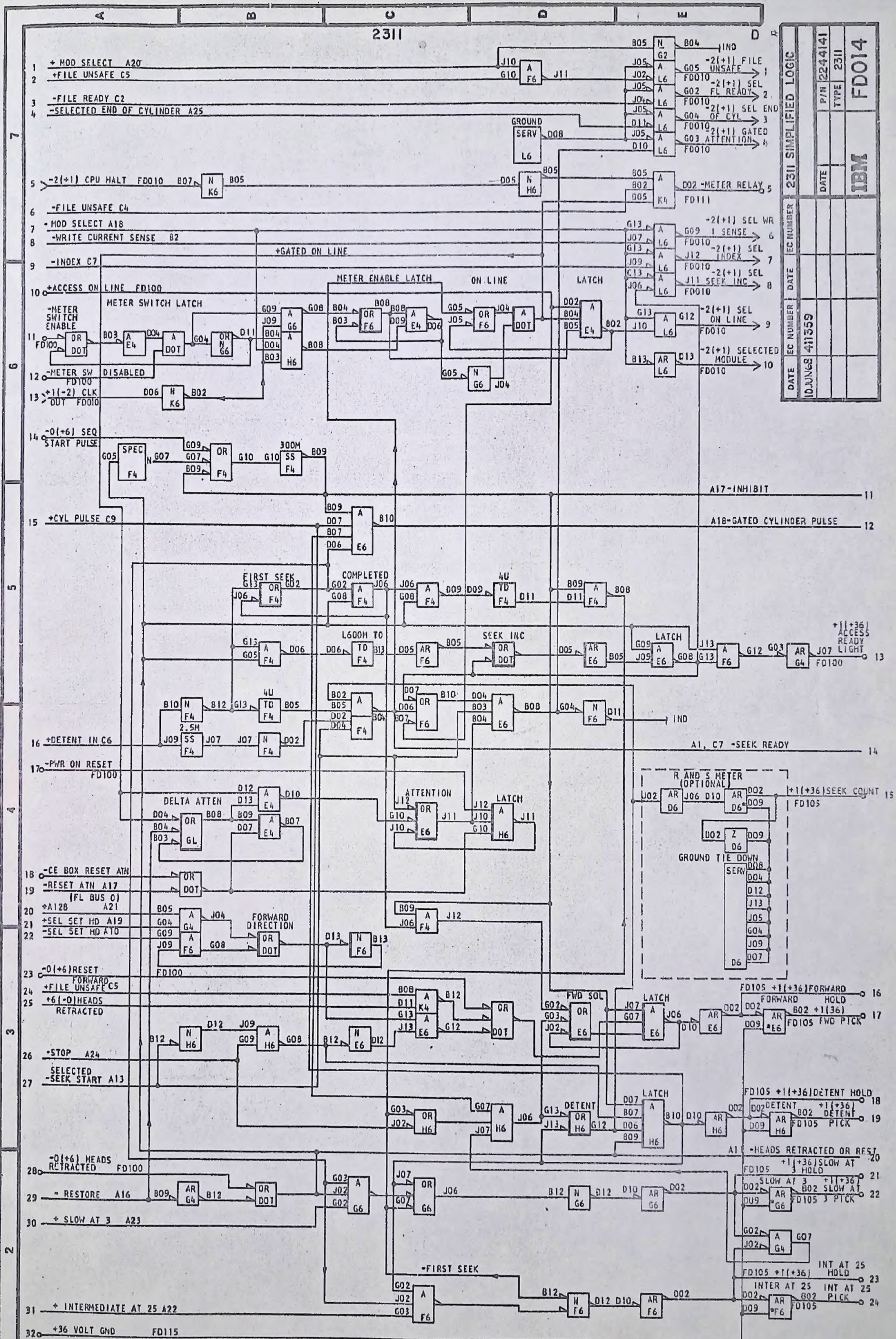
2

1. THE SIMPLIFIED LOGIC DIAGRAM CONSISTS OF FOUR SHEETS LABELED A, B, C, AND D.
2. THE INPUT LINES AND THE OUTPUT LINES ARE NUMBERED CONSECUTIVELY FROM TOP TO BOTTOM.
3. BOTH THE INPUT AND OUTPUT LINES ARE CROSS-REFERENCED TO CONNECTING PAGES THROUGH THE USE OF PAGE AND LINE IDENTIFICATION. FOR EXAMPLE, OUTPUT LINE 1 - "ERASE CURRENT UNSAFE" ON THIS PAGE (PAGE B) CONNECTS TO PAGE C LINE 11 (C11). ON PAGE C NOTE THAT THE LINE IS DESIGNATED B1, MEANING THAT THE LINE ORIGINATES ON PAGE B, LINE 1.

[illegible]

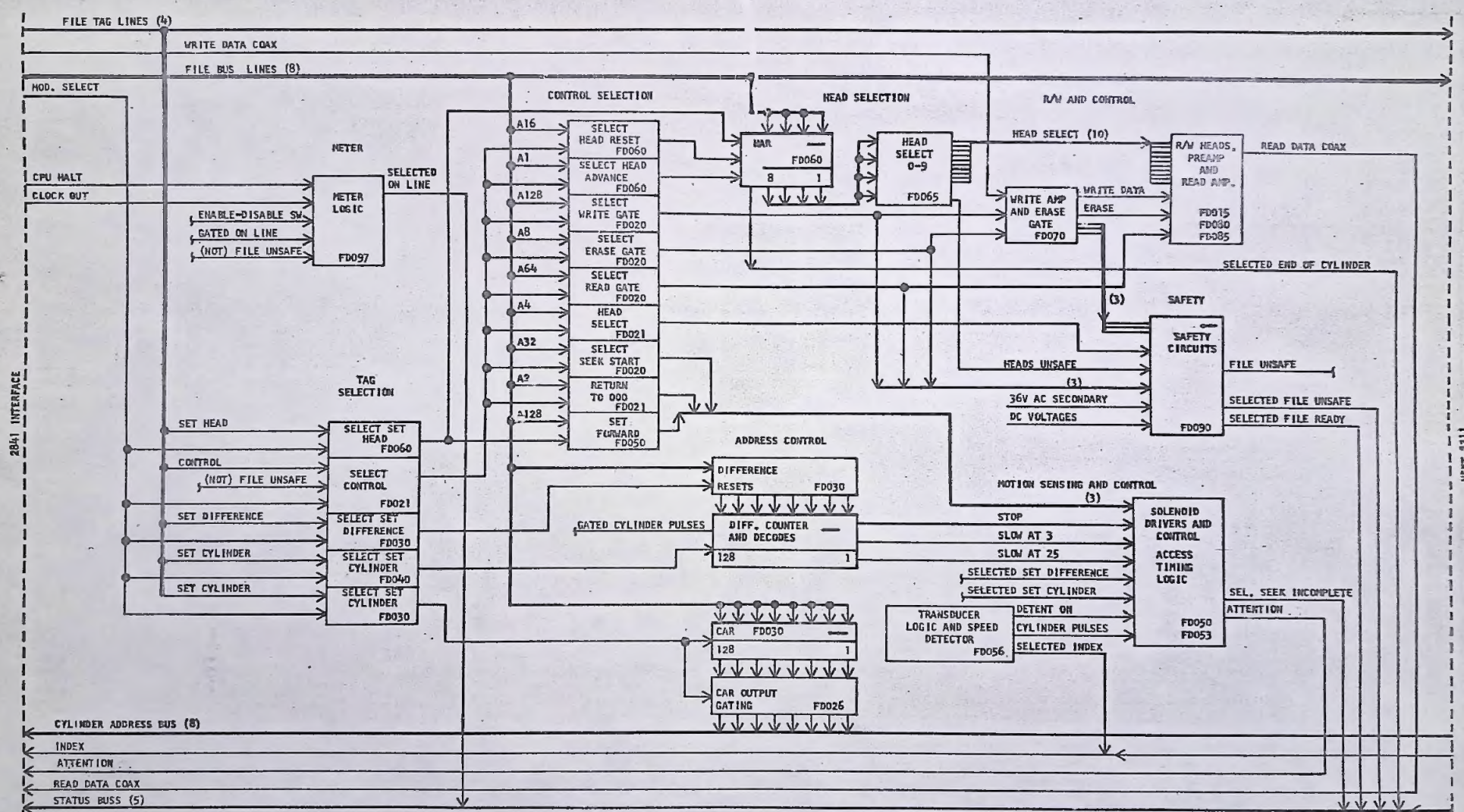
3 ●●●●PUNH-HIS-DC

23 HOLE PUNCH - THIS EDGE



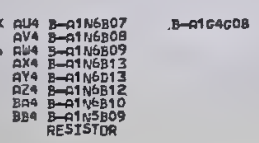
Wagon

FD016



8-14-64 EC 411042
 EC 411105
 EC 411127
 EC 411131
 7-9-65 EC 411143

DATA FLOW AND CONTROL
 DATE 8-14-64 NACH 2311
 LOG P/W 2180832
 ION CORP

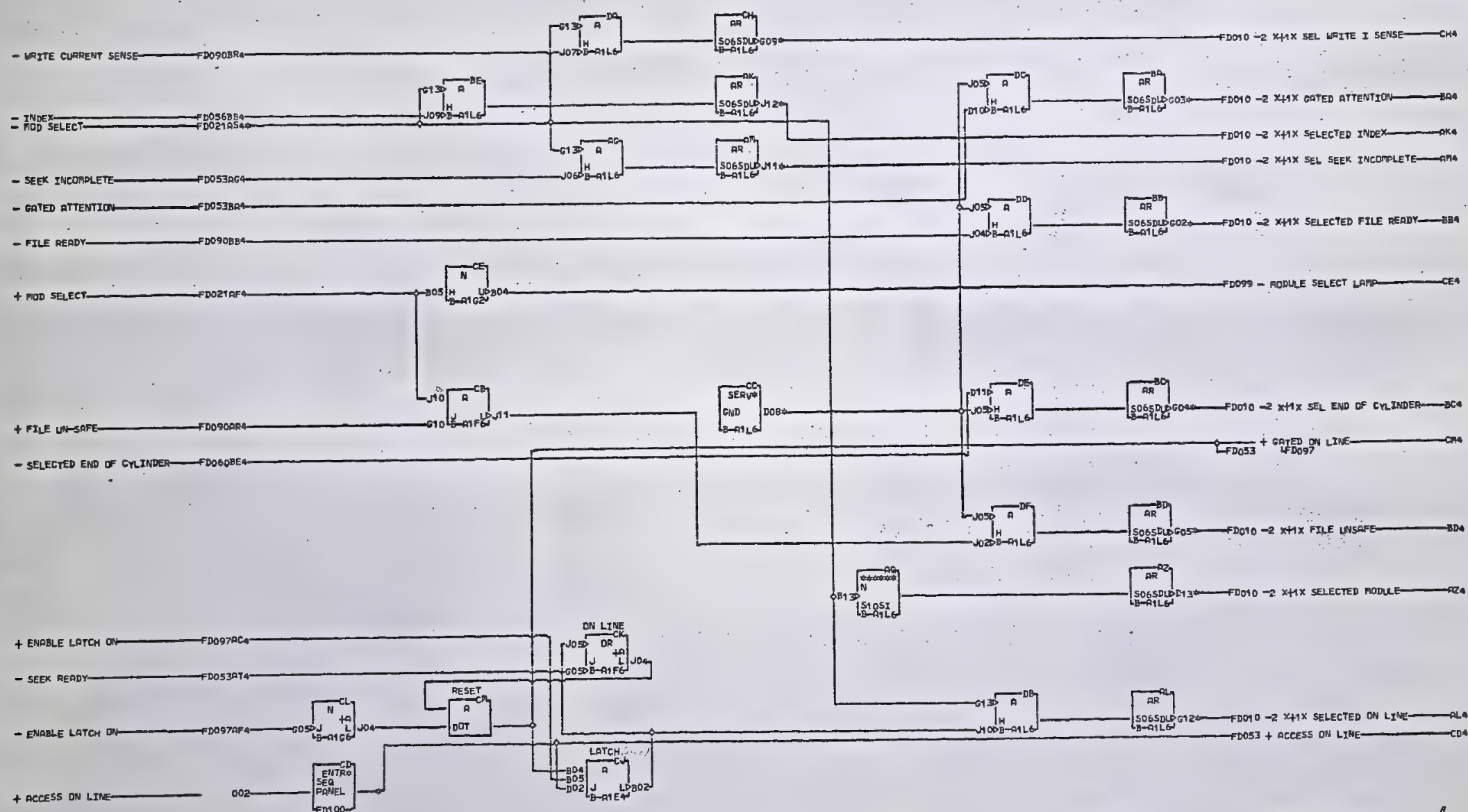


LDC	TYPE
B-A1E4	0000
B-A1G4	4272
B-A1H6	4271
B-A1L6	4270

LINE RECEIVERS

E.C.	HISTORY	FRAC.	2311
411042A	411189		
411066	411205	FRAME	01
411079	411227		
411131	411249	IBM CORP.	GPD
DATE	LAST EC		
09-15-67	411334	P.N.	2180634

000 FD025

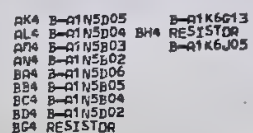


FD021AS4 BC4 B-A1N6D11
RESISTOR BD4 B-A1N6D09
B-A1L6G13 CC4 RESISTOR
AK4 B-A1N6D07 B-A1L6J05
AL4 B-A1N6D06 CD4 B-A1N4803
AQ4 B-A1N6D10 CH4 B-A1N6D02
AZ4 B-A1N5810
BA4 B-A1N5808
BB4 B-A1N6D05

LOC. TYPE
B-A1E4 0000
B-A1F6 4271
B-A1G2 4273
B-A1G6 4271
B-A1L6 4270

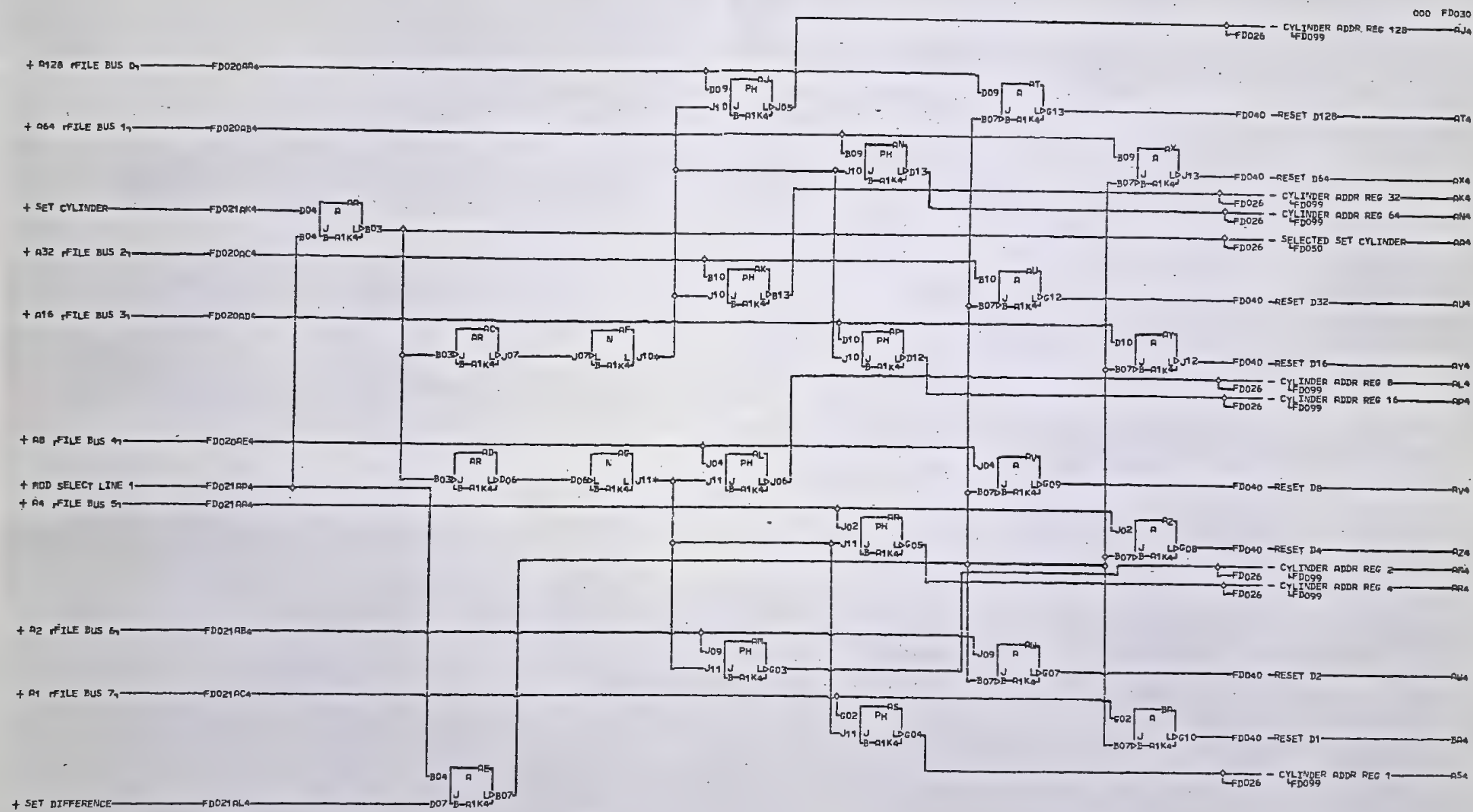
LINE DRIVERS			
E-C-HISTORY	411079	411189	FRAME 01
	411105	411205	
	411127	411231	
	411131	411249	
DATE	09-13-67	LAST EC	411334
		PaNo	2180635

F D O S 000



LDC.	TYPE
B-Q1E6	4271
B-Q1G6	4271
B-Q1H6	4271
B-Q1K6	4270

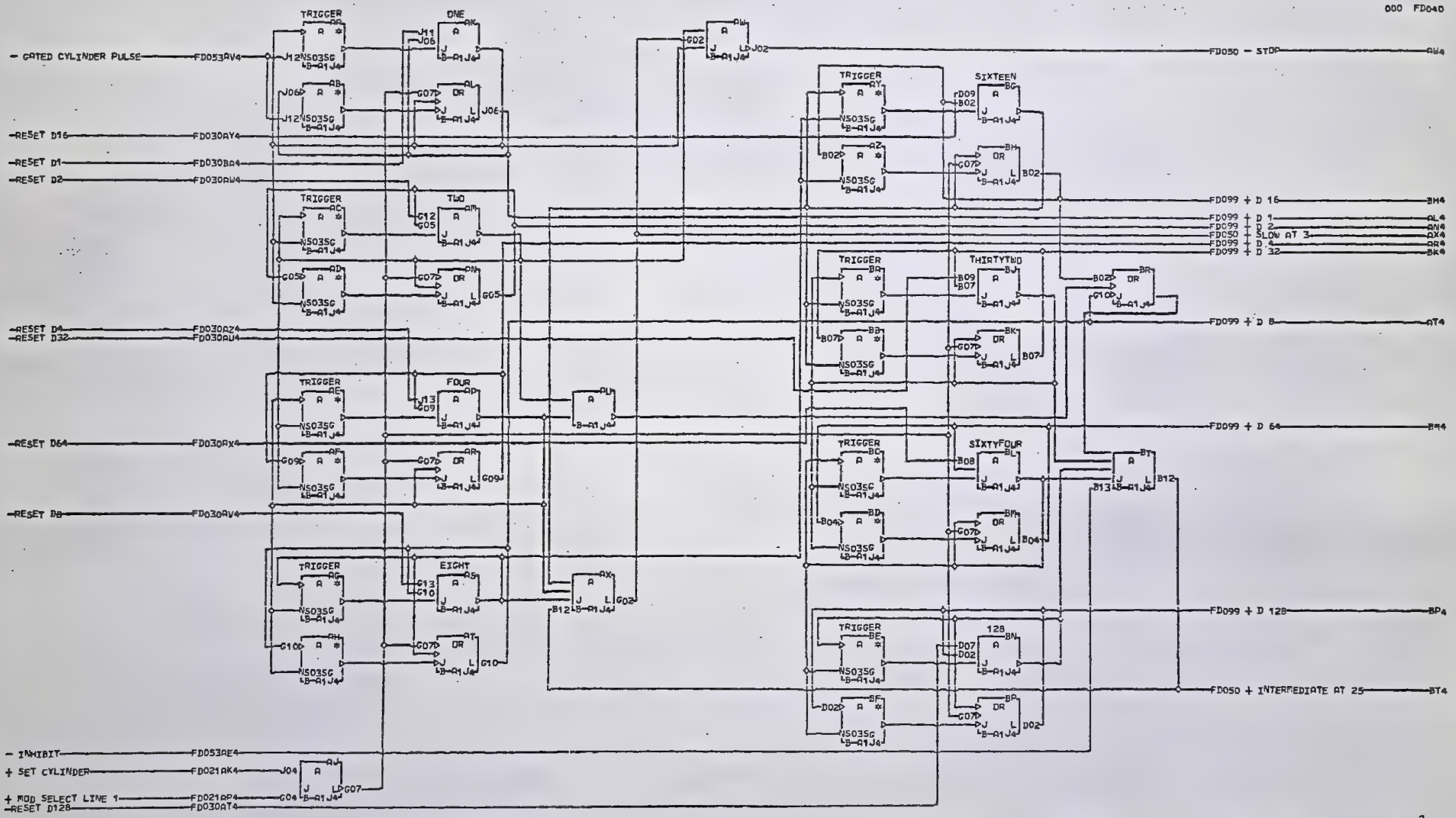
LINE DRIVERS			F
E.C. HISTORY		MACN. 2311	D
411042A	411227		0
411079	411249	FRAME	2
411105			6
411189		IBM CORP. GPD	000
DATE LAST EC		P.N. 2180636	
09-15-67	411334		



AF4 RESISTOR
B-A1K4J10
AG4 RESISTOR
B-A1K4J11

LDC TYPE
B-A1K4 4268

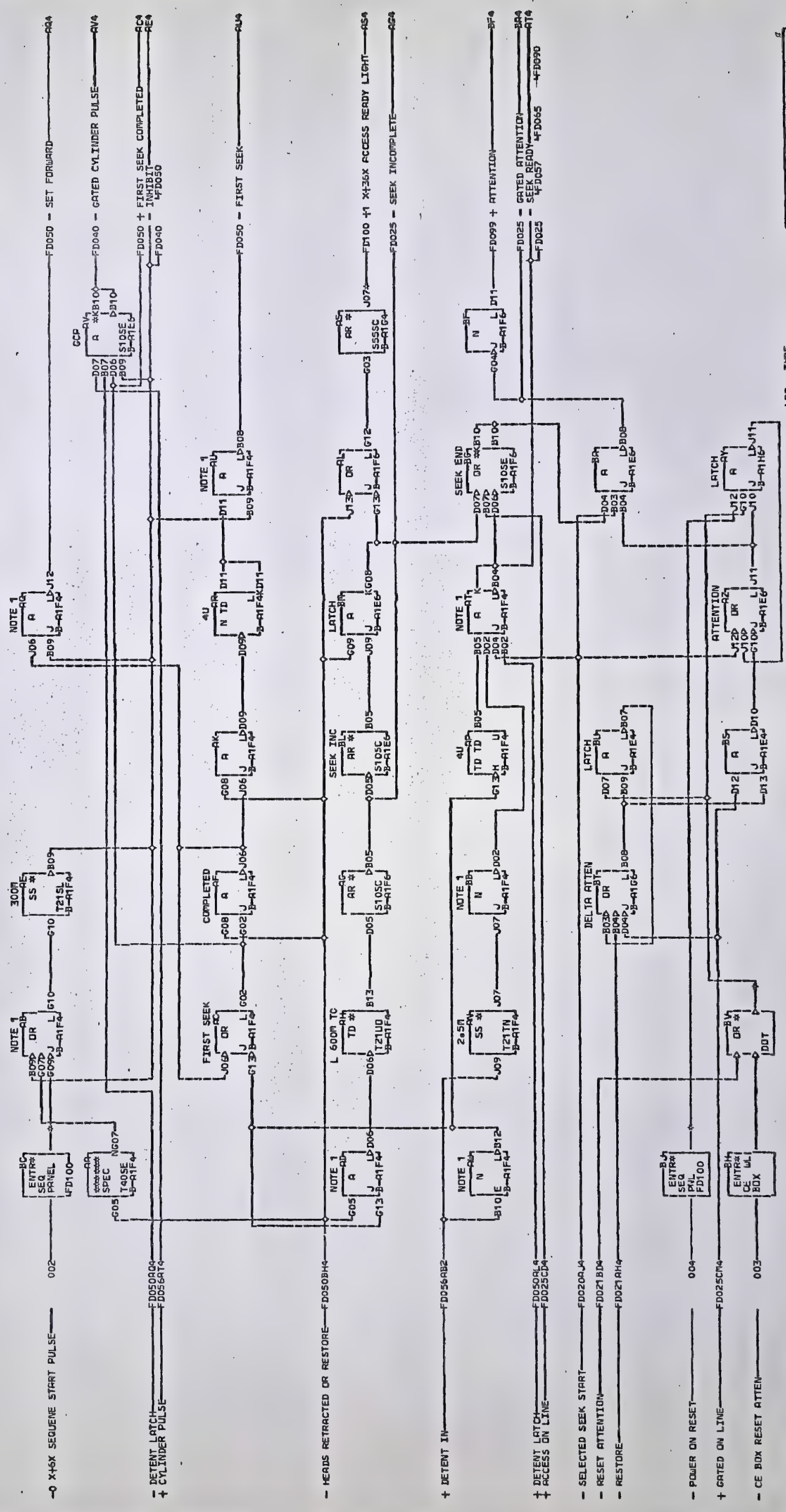
CYL ADDR REG + DIFF RESET				F D O 3 0 000
-E.C.-HISTORY-		PACH.2311		
4110428	411131			
411066	411205	FRAME	01	
411079				
411105		IBM CORP.	GPD	
DATE	LAST EC			
11-15-66	411249	Pch. 2180637		



F
D
O
A
O
000

LOC. TYPE
B-A1J4 4269

DIFFERENCE COUNTER WITH DECODER				A
EC-HISTORY	MACH-2311			F
411042B				D
411055	FRAME	01		O
411079				A
411105	IBM CORP. GPD			O
DATE	LAST EC			
11-15-66	411249			
	P.N. 2180638			000

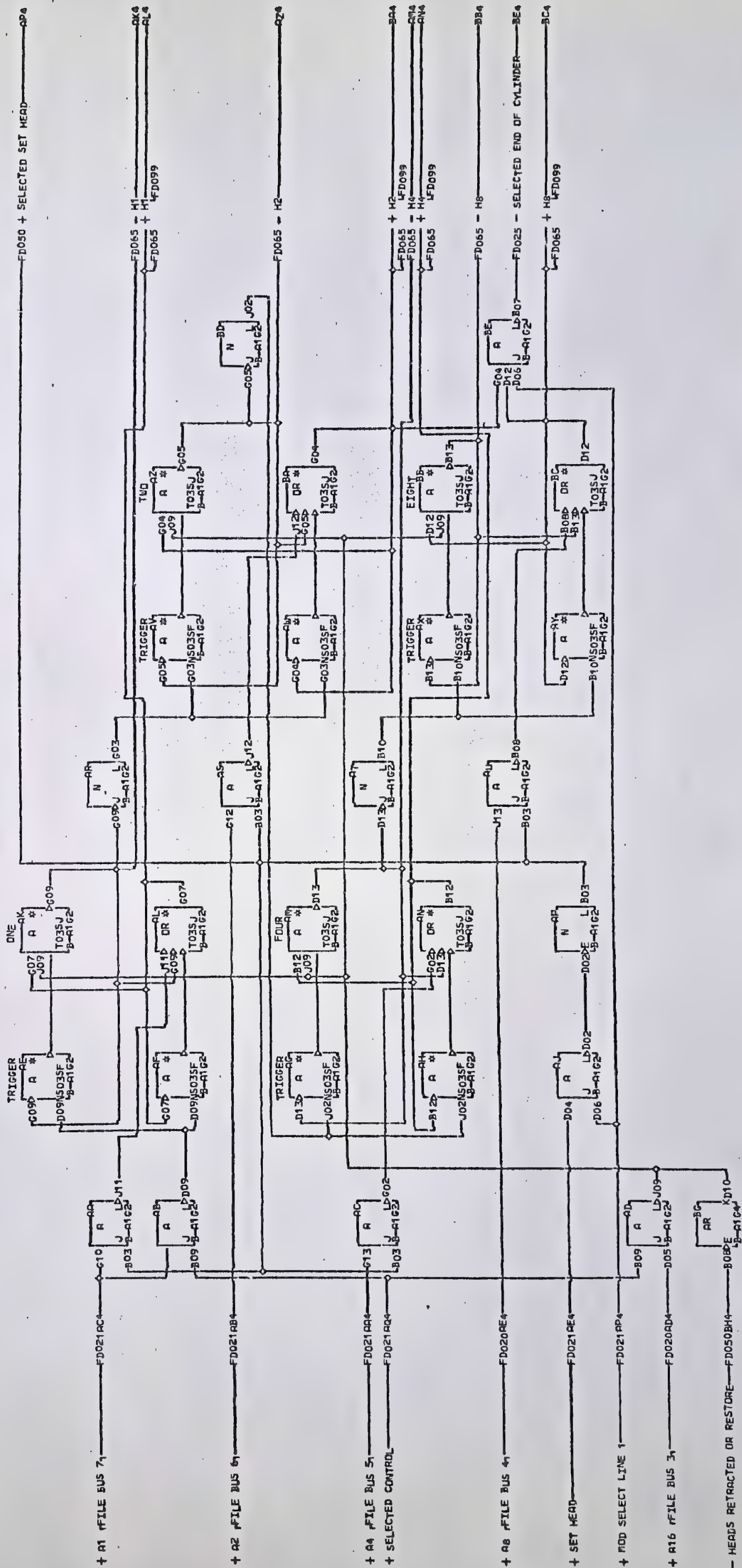


NOTE 1 USE EITHER CARD 0763 OR 4277. CARD 0763 HAS 2.5 MS DELAY AND CARD 4277 HAS 7 MS DELAY AT PIN D02.

LOC. TYPE
B-A1E4 0000
B-A1E6 4271
B-A1F4 0763
B-A1F6 4271
B-A1G4 4272
B-A1G6 4271
B-A1H6 4271

ACCESS TIMING
E-C-HISTORY BACH-2311
411141 411205
411143 411227
411153 411249
411189 411334
DATE LAST EC
05-25-68 411359
P.N. 2180640

000



LOC.	TYPE
B-A1G2	4273
B-A1G4	4272

F D S O
000

HEAD ADDRESS REG.

E-C-HISTORY MACH-2311
410428 411189
411066 FRAME
411079 IBM CORP. CSD
411105 P/N: 2180642
DATE LAST EC
11-15-66 411249

- SEEK READY - FD0530Y4

M1 FD060AK4
M2 FD060R24
M3 FD060B34
M4 FD060B44
HEAD DESELECT FD090BU4

+ M1 FD060RL4
+ M2 FD060BR4
+ M4 FD060RN4
+ M6 FD060BC4

FD075 -0 X136X SELECT Y0 -AR2

FD080 -0 X136X SELECT Y1 -AR2

FD080 -0 X136X SELECT Y2 -AR2

FD075 -0 X136X SELECT Y3 -AR2

FD075 -0 X136X SELECT Y4 -AR2

FD080 -0 X136X SELECT Y5 -AR2

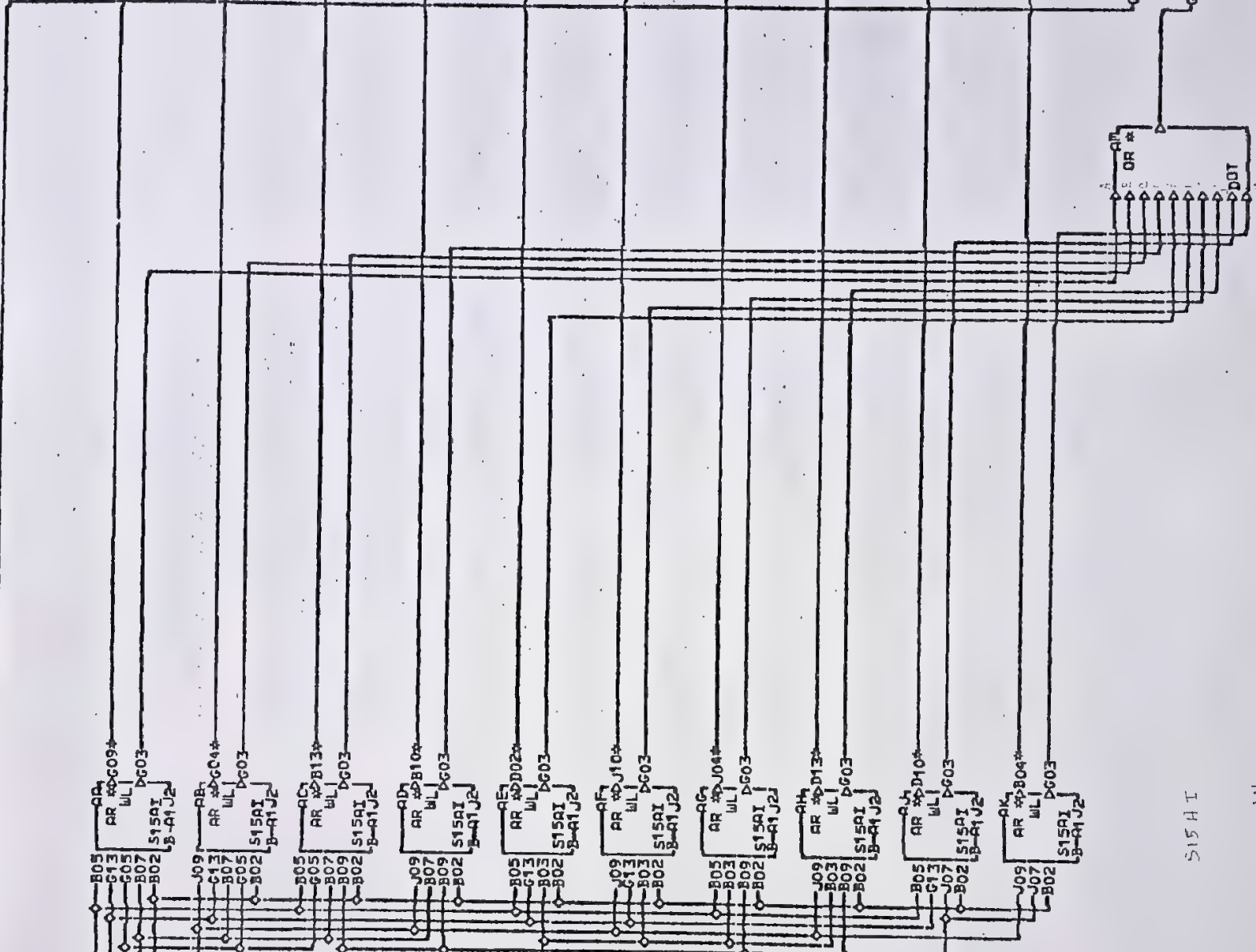
FD080 -0 X136X SELECT Y6 -AR2

FD075 -0 X136X SELECT Y7 -AR2

FD075 -0 X136X SELECT Y8 -AR2

FD080 -0 X136X SELECT Y9 -AR2

FD090 -0 HEADS UNSAFE -AL4



NOTE 1 ANY TWO HEADS
SELECTED OR ANY HEAD
F AND NOT SEEK READY
D WILL CAUSE AN UNSAFE.

AC2 B-A1N2B04 AK2 B-A1N2B02
AB2 B-A1N2B05
AC2 B-A1N2B13
AD2 B-A1N2B02
AE2 B-A1N2B06
AF2 B-A1N2B04
AG2 B-A1N2B03
AH2 B-A1N2B01
AJ2 B-A1N2B11

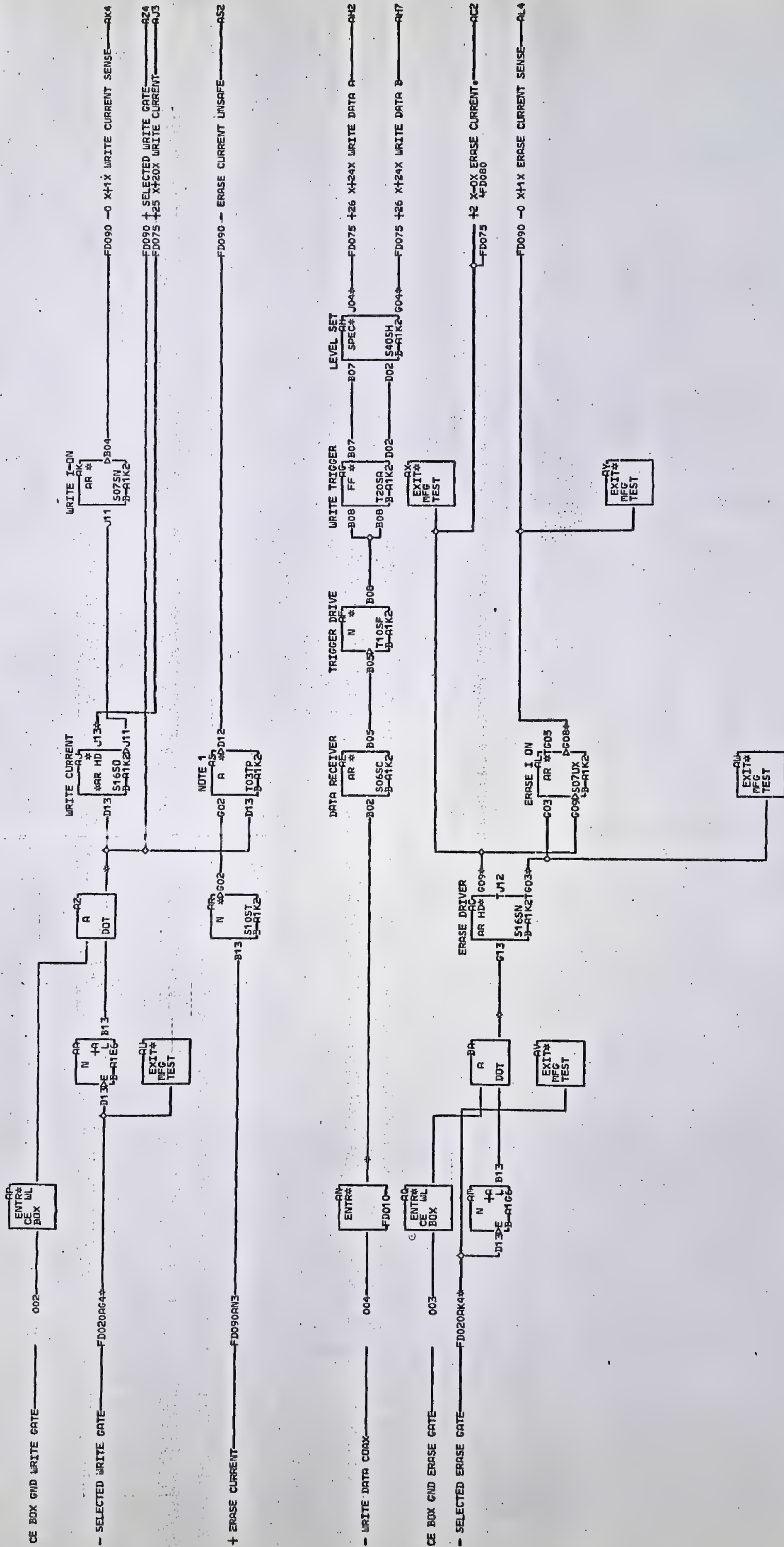
13 x 16 1/2 x 11 1/2
10 1/2 x 12 1/2 x 11 1/2
10 1/2 x 12 1/2 x 11 1/2

LDC. TYPE
B-A1J2 4275

515 H I
503 H H

HEAD SELECT 0-9 AND SAFETY		F D S 000
HEAD SELECT	SAFETY	
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

000
F
D
S
000



F NOTE 1 USE EITHER
D CARD 6838 OR
0 6231.
7
0
000

FD0208G4	RJ3	B-Q1N2D10
01B-Q1L8D04	AL4	B-Q1L8E04
FD0208K4	AV4	B-Q1G1E1
01B-Q1L8C06	RZ4	B-Q1N5D07
AC2 B-Q1N2D05	BQ4	B-Q1N5D13
01B-Q1K8E04		
AC7 B-Q1L8A06		
AH2 B-Q1N2D07		
QW7 B-Q1N2D08		

LUC.	TYPE
B-41 E6	4271
B-41 G6	4271
B-41 K2	6838

WRITE AMPLIFIER

E-C HISTORY

41123A PACH-2311

411103 FRAME 01

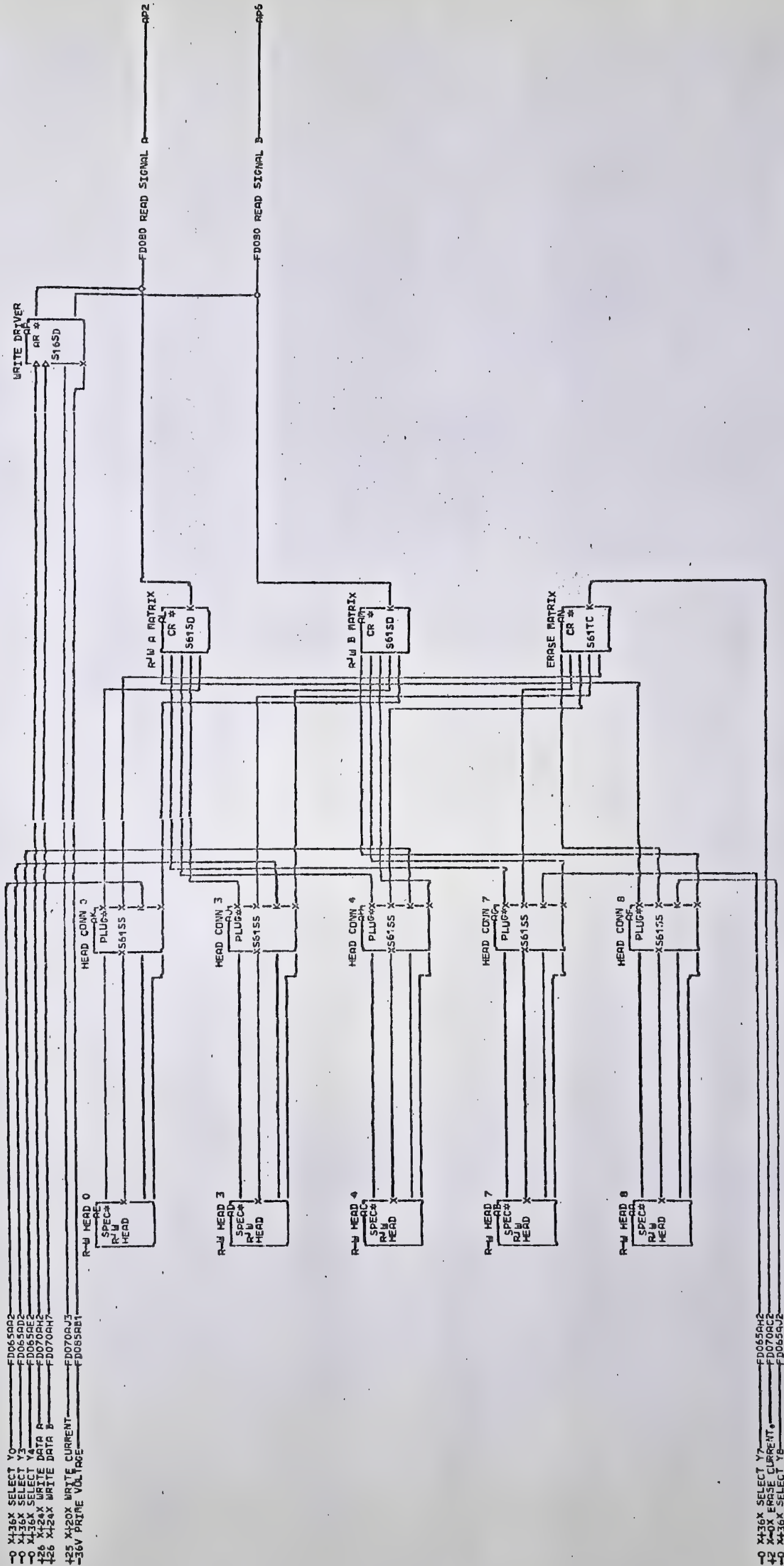
411127 IBM CORP. CPD

411152 DATE

411153 LAST AC

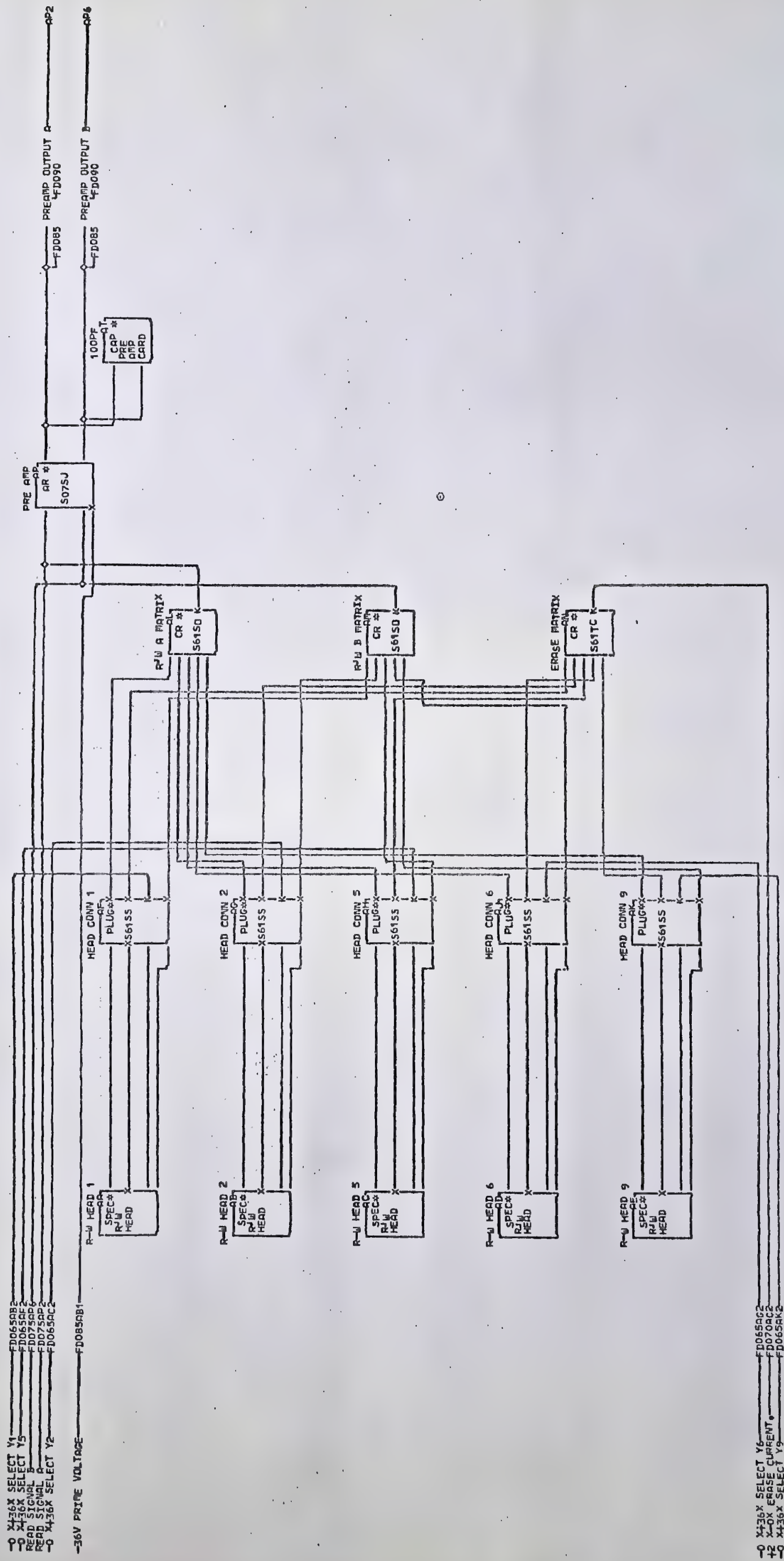
03-10-68 21R064

P-N- 21R064



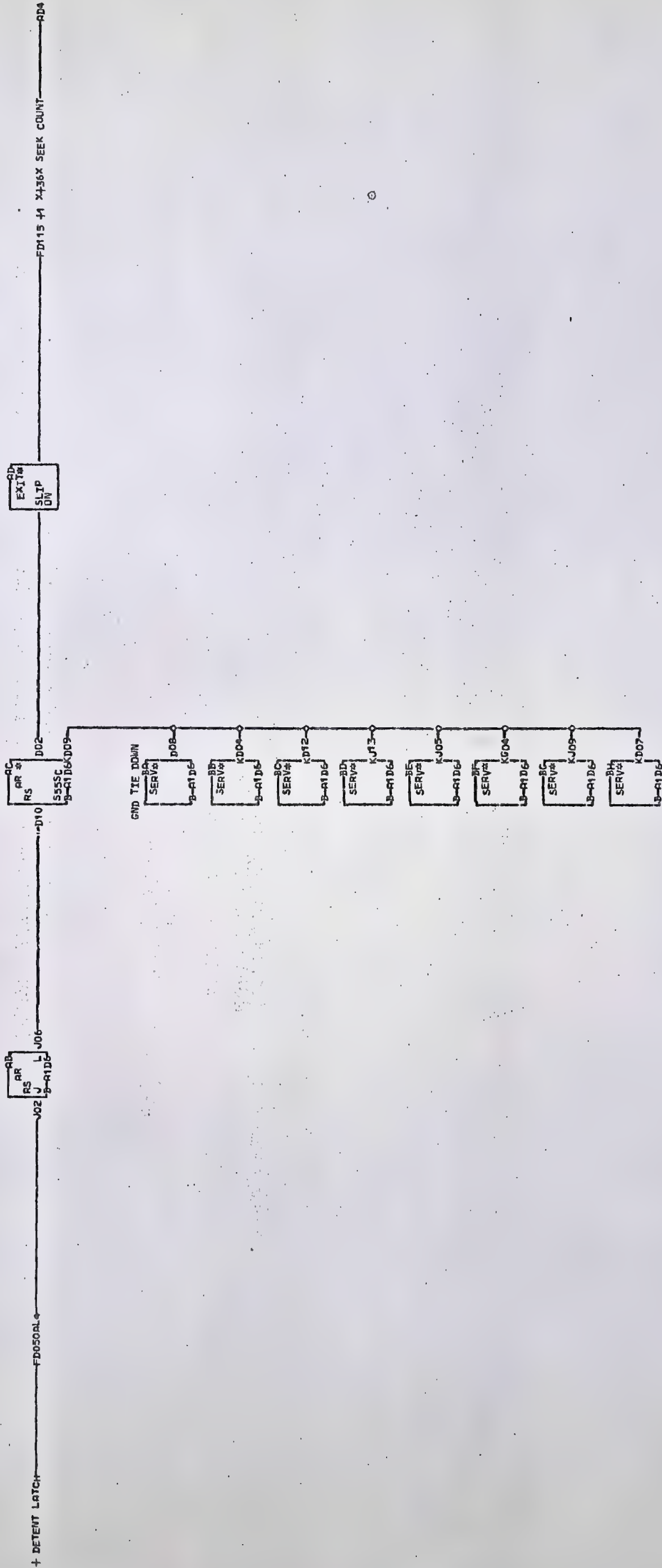
WRITE DRIVER AND MATRIX			
E.C. HISTORY	FRAME	DATE	LAST EC
411092A	01	11-15-66	411249
411105			
411227			
IBN CORP. GPD		P.N. 2180645	

NOTE 1 HEADS 0 3 4 7 AND 8
LOCATED ON B SIDE OF ACTUATOR
TOWARD FRONT OF MACHINE.



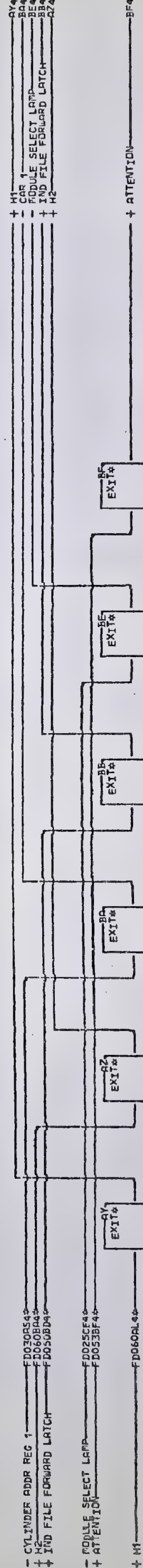
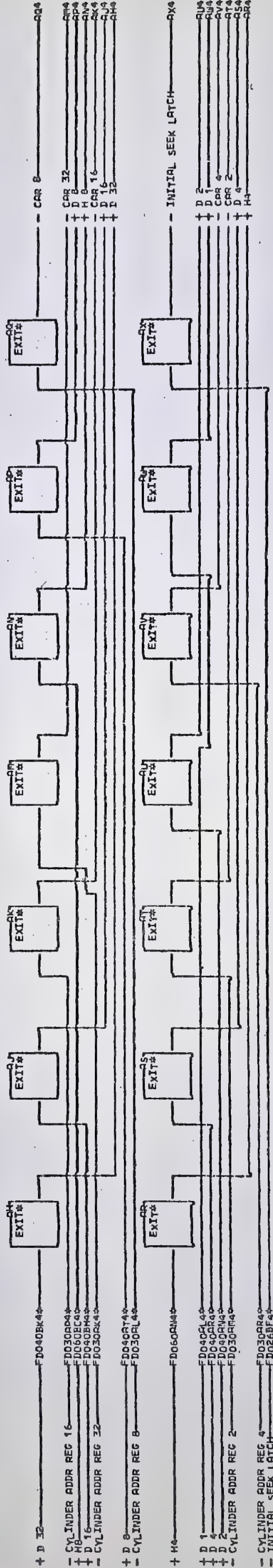
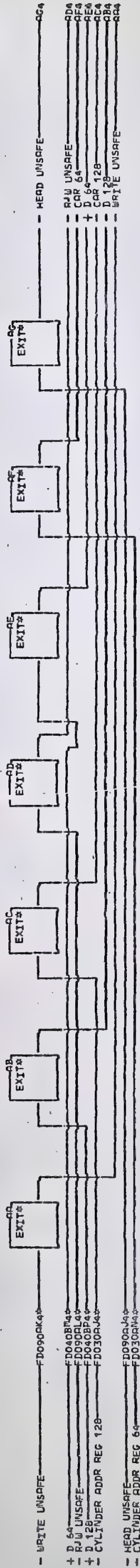
	READ PRE-AMP AND MATRIX		
FAC-HISTORY	MACH-2311		
41042A	411227	ON	
41106A	411265	FRAME	
41109B		IBM CORP. CPD	
41107F		P/N: 218064S	
41110S			
DATE	LAST EC		
11-15-66	411249		
END PAGE			

NOTE 1 HEADS 1-2-3-6 AND 9
LOCATED ON A SIDE OF ACTUATOR
TOWARD REAR OF MACHINE.



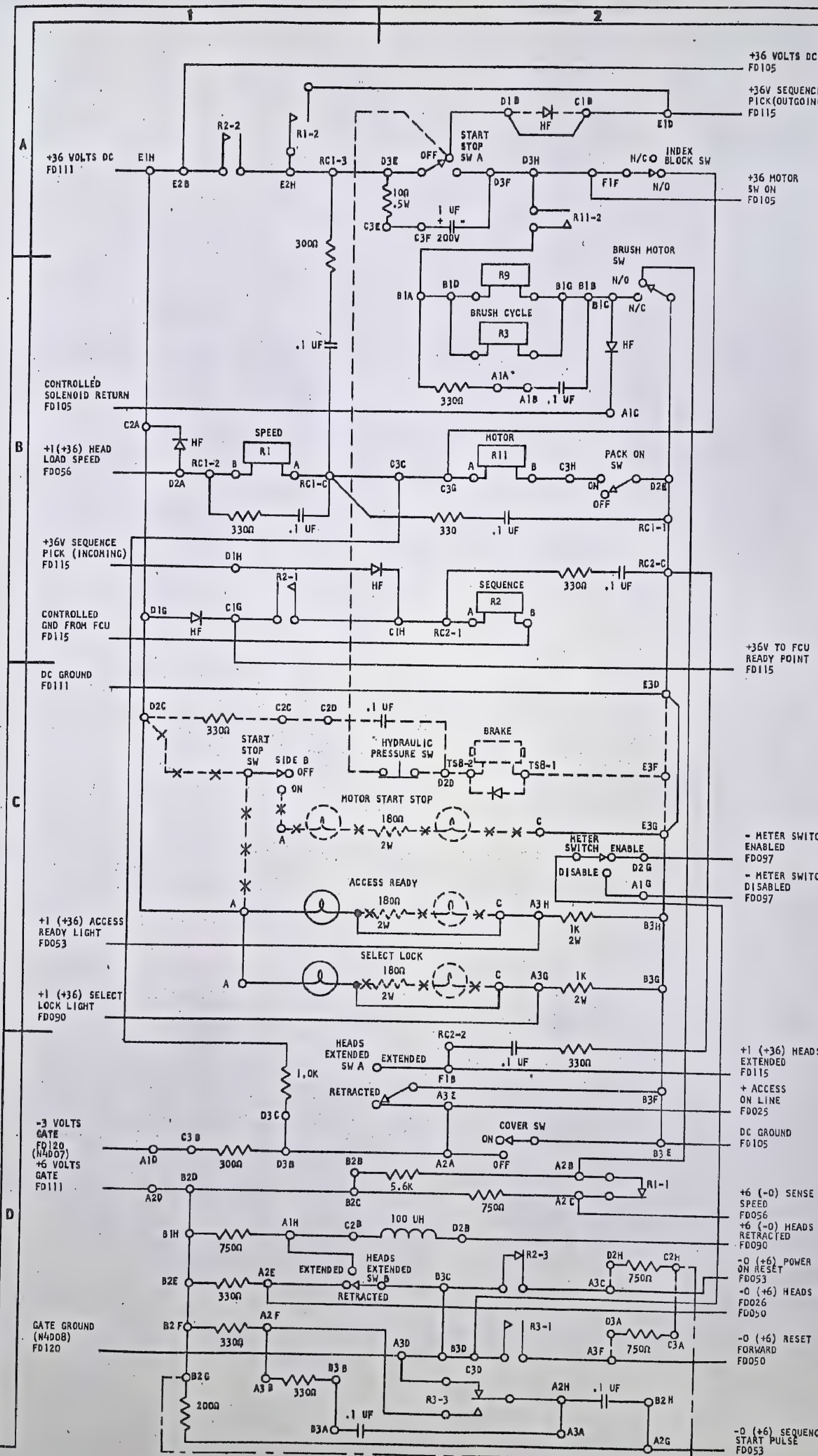
LOC. TYPE
B-A1D6 4271

R + S METER		F D O 8	
OPTIONAL FEATURE		RACH.2311	
F.C. HISTORY		FRAME 01 8	
411062A		IBN CORP. CPD	
411068		P.N. 2130833	
411103		LAST EC	
411249		DATE	
09-15-67		411334	



CCE INDICATOR DRIVER	
F 0 0 9	D 0 9
MACH. 2311	
FRATE 01	
IBM CORP. GPD 000	
DATE LAST EC 11-15-66 411249	
P.N. 2180823	

FD025CE4 01B-01A2D05 FD030A54 01B-01A3B04 FD050B04 01B-01A3D04
 01B-01A2D11 FD030A04 01B-01A2D10 FD040A04 01B-01A3D11 FD060B04 01B-01A3B07
 FD025BF4 01B-01A2D09 FD040A04 01B-01A3D09 FD050B04 01B-01A3B07 01B-01A3D07
 01B-01A3B10 FD030A04 01B-01A3B09 FD040A04 01B-01A3B12 FD090B04 01B-01A2B09
 FD030A04 01B-01A2B07 FD040A04 01B-01A2D12 FD050A04 01B-01A3D07 FD090B04 01B-01A2B09
 01B-01A2B13 FD030A04 01B-01A3D05 FD040A04 01B-01A3D07 FD090B04 01B-01A2D02
 FD030A04 01B-01A2D13 FD040A04 01B-01A3D06 FD050A04 01B-01A3B02 FD090A04 01B-01A2D02
 01B-01A2B10 FD030A04 01B-01A3D02 FD040A04 01B-01A3B02 FD060B04 01B-01A2D04
 FD030A04 01B-01A2B04 FD040A04 01B-01A3D02 FD050B04 01B-01A3B04

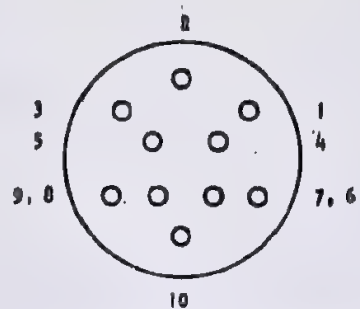


POWER ON/OFF SEQUENCING				DATE		P/N		TYPE		FD100
DATE	EC NUMBER	DATE	EC NUMBER	DATE	DATE	DATE	DATE	DATE	DATE	
MAY 66	411205	MAY 67	411279	MAY 67	411359	MAY 67	2180649			
NOV 66	411210E	NOV 66	411359	NOV 66	411359	NOV 66	2180649			
MAR 67	411210J	MAR 67	411249	MAR 67	411359	MAR 67	2180649			
APR 67	411249	APR 67	411249	APR 67	411249	APR 67	411249			

RED

INDICATE CIRCUITRY FOR MACHINES WITH ELECTRICAL SPINDLE BRAKE.
INDICATE CIRCUITRY FOR MACHINES WITH PUSHBUTTON START/STOP SWITCH.
INDICATES CIRCUITRY PRESENT ON LATE MODEL MACHINES ONLY.

- METER SWITCH ENABLED FD097
- METER SWITCH DISABLED FD097
- +1 (+36) HEADS EXTENDED FD115
- + ACCESS ON LINE FD025
- DC GROUND FD105
- +6 (-0) SENSE SPEED FD056
- +6 (-0) HEADS RETRACTED FD090
- 0 (+6) POWER ON RESET FD053
- 0 (+6) HEADS RETRACTED FD026 FD050
- 0 (+6) RESET FORWARD FD050
- 0 (+6) SEQUENCE START PULSE FD053



SOLENOID	PINS
FORWARD	1-6
SLOW AT 3	3-9
SLOW AT 25	2-10
DETENT	4-7
EXTEND	5-8

+1 (+36) FORWARD PICK
FD 050

B

+1 (+36) FORWARD HOLD
FD 050

+1 (+36) SLOW AT 3 PICK
FD 050

+1 (+36) SLOW AT 3 HOLD
FD 050

+1 (+36) INTERMEDIATE AT
25 PICK FD 050

C

+1 (+36) INTERMEDIATE AT
25 HOLD FD 050

+1 (+36) DETENT PICK
FD 050

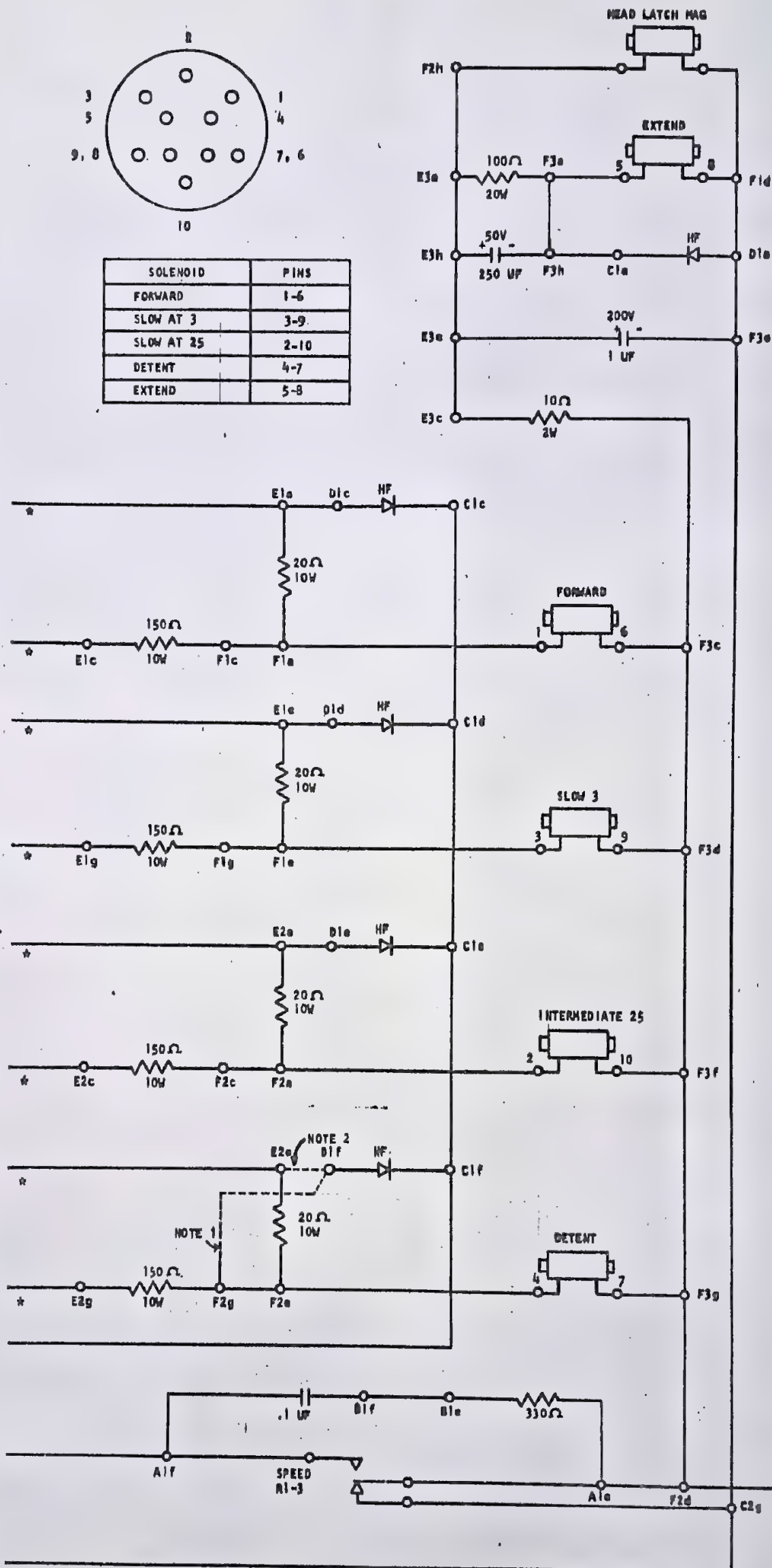
+1 (+36) DETENT HOLD
FD 050

+36 V DC
FD 100

D

+36 MOTOR SW ON
FD 100

DC GROUND
FD 100



* TWISTED PAIR - GROUNDED WIRE CONNECTED ONLY AT GATE END ON CONNECTOR GROUND STRIP.

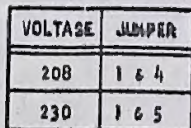
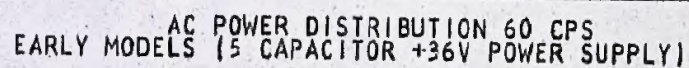
NOTE 1. JUMPER IS CONNECTED IN THIS LOCATION FOR FILES WITH ACTUATORS HAVING VALVE BLOCKS WITHOUT P/M INDICATION.

NOTE 2. JUMPER IS CONNECTED IN THIS LOCATION FOR FILES WITH ACTUATORS HAVING VALVE BLOCKS WITH P/M INDICATION (HIGH SPEED ACTUATORS).

EC 411131 MAY 65
EC 411141 JUN 65
EC 411162A NOV 65
EC 411189 MAR 66
EC 411249 APR 67

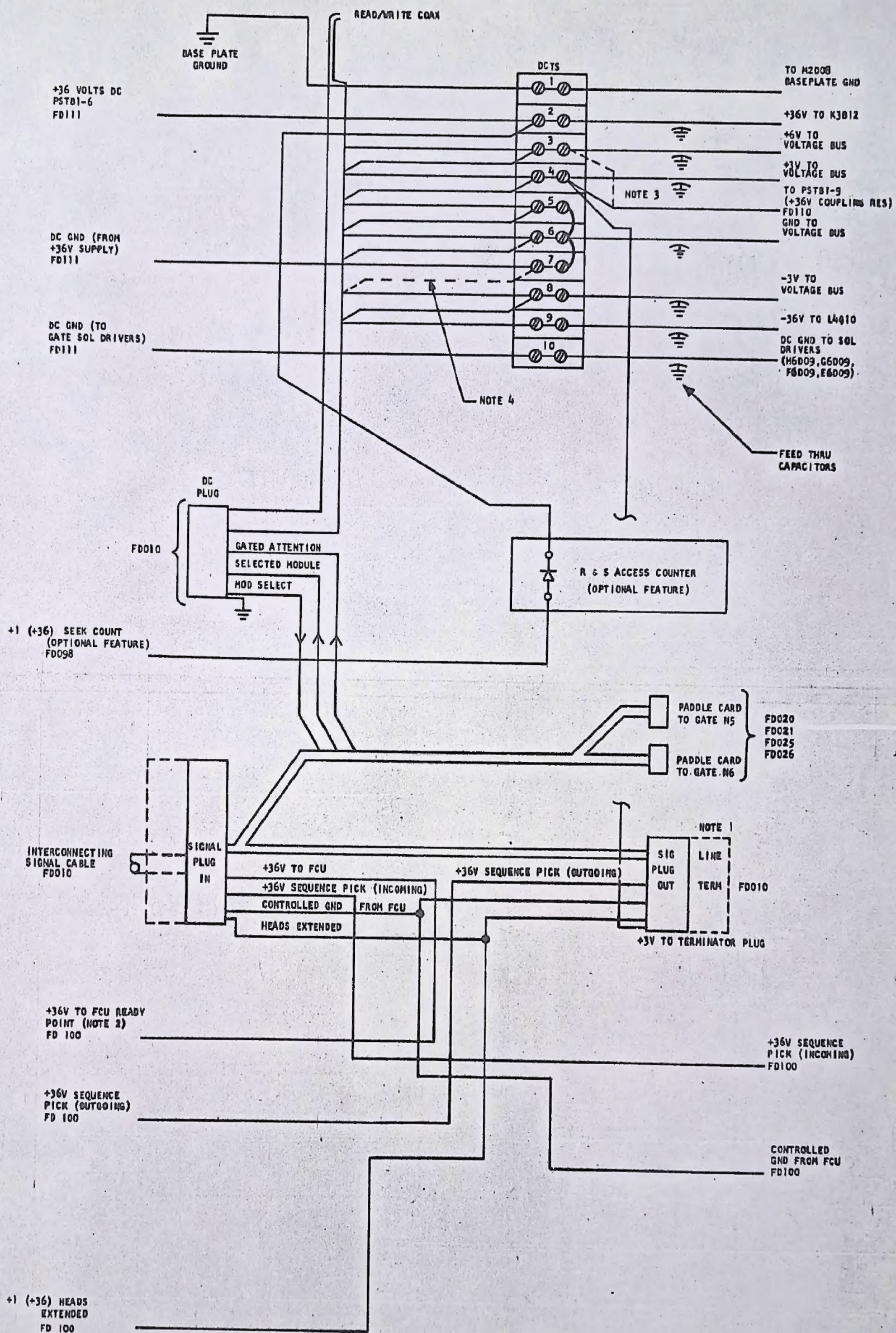
AC POWER DISTRIBUTION 60 CPS
LATE MODELS (SINGLE CAPACITOR +36V POWER SUPPLY)

SHEET 1 OF 2



1. CONNECTED TO +6V (DCTS-3) ON MOD 11 AND MOD 12. CONNECTED TO +3V (DCTS-4) ON ALL OTHERS.

EC 411131 MAY 65
EC 411141 JUN 65
EC 411227 JUL 66
EC 411210C NOV 66
EC 411249 APR 67
EC 411292 APR 67
EC 411359 06JUN68



EC 411105 MAR 65
 EC 411141 JUN 65
 EC 411109 MAR 66
 EC 411227 JUL 66
 EC 411249 APR 67

- NOTES:
1. LINE TERMINATING RESISTORS PLUG INTO "SIGNAL OUT PLUG" ON THE LAST FILE OF STRING.
 2. THIS VOLTAGE IS USED TO PICK R2 OF THE FIRST FILE, THROUGH THE FCU JUMPER.
 3. CONNECT TO DCTS-3 (DOTTED) FOR MOD 11 AND 12. CONNECT TO DCTS-4 FOR ALL OTHERS (SOLID).
 4. CONNECT THIS WIRE FOR MOD 12 TAPE INTO CABLE FOR ALL OTHERS.

2 3 4 5 6 7

EDGE CONNECTOR LOCATION						
	A	B	C	D	E	F
1A	100-D2	100-B2	105-B2	105-B2	105-B2	105-B2
B	100-B2	100-B2	100-A2	100-A2		100-D2
C	100-B2	100-B2	105-B2	105-B2	105-B1	105-B1
D	100-D1	100-B2	105-B2	105-B2	100-A2	105-A2
E	105-D2	105-D2	105-C2	105-C2	105-B2	105-C2
F	105-D1	105-D2	105-C2	105-C2		100-A2
G	100-C2	100-B2	100-B1	100-B1	105-C1	105-C1
H	100-D1	100-D1	100-B2	100-B1	100-A1	
2A	100-D2		100-B1	100-B1	105-C2	105-C2
B	100-D2	100-D1	100-D1	100-D1	100-A1	
C	100-D2	100-D1	100-C1	100-C1	105-C1	105-C1
D	100-D1	100-D1	100-C1	100-C2		105-D2
E	100-D1	100-D1		100-B2	105-C2	105-D2
F	100-D1	100-D1				
G	100-D2	100-D1	105-2D	100-C2	105-D1	105-D1
H	100-D2	100-D2	100-D2	100-D2	100-A1	105-A2
3A	100-D2	100-D1	100-D2	100-D2	105-A2	105-A2
B	100-D1	100-D1	100-D1	100-D1		
C	100-D2	100-D2	100-B2	100-D1	105-B2	105-B2
D	100-D2	100-D2			100-C2	105-C2
E	100-D2	100-D2	100-A2	100-A2	105-B2	105-B2
F	100-D2	100-D2	100-A2	100-A2	100-C2	105-C2
G	100-C2	100-C2	100-B2		100-C2	105-D2
H	100-C2	100-C2	100-B2	100-A2	105-B2	105-B2

NOTE: FD PRECEDES ALL PAGE NUMBERS

RELAY	NAME	COIL	CONTACT		
			1	2	3
1	SPEED	100-B1	100-D2	100-A1	105-D2
2	SEQUENCE	100-B2	100-B1	100-A1	100-D2
3	BRUSH CYCLE (36V)	100-B2	100-D2	-	100-D2
9	BRUSH CYCLE (208)	100-B2	-	110	-
11	MOTOR	100-B2	110	100-A2	-

FUSE	RATING	CIRCUIT	PAGE NO.
F1	8.0A SLO-BLO	208 AC ALL	FD110
F2	8.0A SLO-BLO	208 AC ALL	FD110
F3	1.0 SLO-BLO	208 AC TRANS	FD111
F4	4.A. FAST-BLO	+36V SEC	FD111

SWITCH	PAGE NO.	
	SIDE A	SIDE B
BRUSH MOTOR	100-B2	-
COVER SW	100-D2	-
ENABLE-DISABLE	100-C2	-
HEADS EXTENDED	100-D2	100-D2
HYDRALLIC PRESSURE	100-C2	-
INDEX BLOCK	100-A2	-
PACK ON SW	100-B2	-
START-STOP	100-A2	100-C1

R.C. NETS	PAGE NO.
RC1-1	100-B2
RC1-2	100-B1
RC1-3	100-A1
RC1-4	-
RC2-1	100-B2
RC2-2	100-D2
RC2-3	-
RC2-4	-

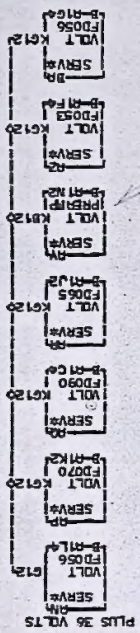
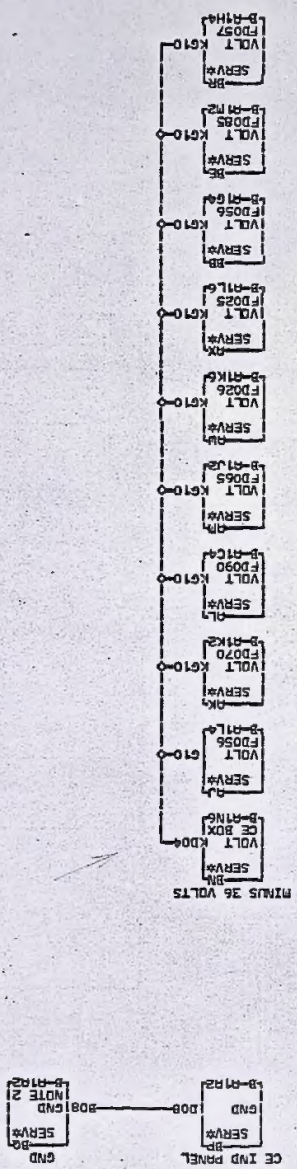
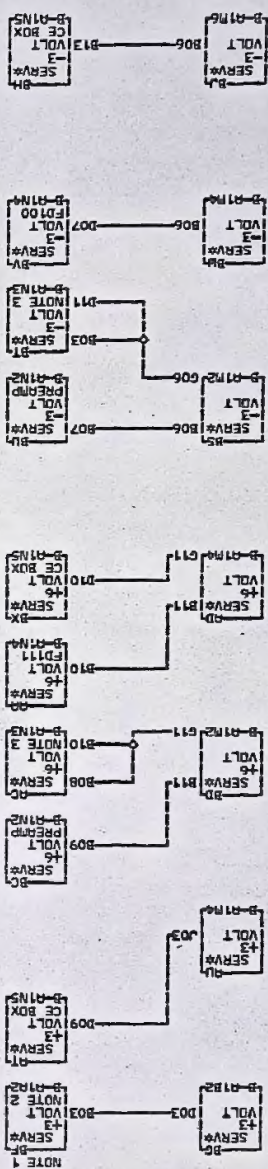
COMPONENT LOCATIONS			
DATE	EC NUMBER	DATE	EC NUMBER
SEE INDEX CARD	411359	06 JUN 68	
MAY 66	411205		
NOV 66	411210E		
MAR 67	411210J		
APR 67	411245		

RED

IBM FD117

DATE MAR 67 P/N 2180745 TYPE

NOTE 1 NOTES INSIDE SERVICE
BLOCKS SHOW WHAT VOLTAGE IS
F CONNECTED TO.
D NUMBERS PRECEDED BY FD REFER
1 TO LOGIC PAGES.
Z VOLTAGE SOURCES HAVE NO NOTES.
O NOTE 2 GOES TO CE INDICATOR
PANEL.
COORDINATE 3 GUES TO TRANSDUCERS.



000	P.N. # 2180654	105-21-68 411359
0	IBN CORP. GPD	DATE LAST EC
2	01	411889
1	FRAME	411105
D		411066
F		411027
		E.C. HISTORY
		411024
		411227
		411278
		411889
		DATE LAST EC
		105-21-68 411359
		P.N. # 2180654